



Patent
Docket No. 356972020512

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Seiichi NAKATANI et al.

Serial No.: 10/602,737

Filing Date: June 25, 2003

For: PRINTED CIRCUIT BOARD AND
METHOD MANUFACTURING THE
SAME

Examiner: J. B. Vigushin

Group Art Unit: 2841

**SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT UNDER 37 C.F.R. § 1.97 & 1.98**

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO/SB/08a/b. Copies of thirty-four of the documents (Cite Nos. 1-7, 9-10, 12-17, and 19-37) were previously submitted in an Information Disclosure Statement and/or Office Action, directed to the following related applications, which are now granted patents: 1) Patent Number 6,038,133, issued March 14, 2000 (Application No. 09/196,792 filed November 20, 1998); 2) Patent Number 6,338,767, issued January 15, 2002 (Application No. 09/484,899 filed January 18, 2000); and 3) Patent Number 6,625,037, issued September 23, 2003 (Application No. 09/956,551 filed September 20, 2001) and, accordingly, copies are not included herewith. This protocol conforms with 37 C.F.R. § 1.98(d) and M.P.E.P. 609(A)(2). The Examiner is requested to make these documents of record in the application.

va-149552

Three of the documents listed on the attached Form PTO/SB/08a/b (Cite Nos. 8, 11, and 18) were cited in the reexamination of related U.S. Patents 6,038,133 (No. 90/007,381) and 6,625,037 (No. 90/007,382), and have not been previously cited. The Examiner is requested to make these documents of record in the application.

Applicants note the Examiner's comments in the Office Action mailed November 8, 2005, regarding Applicants' previously filed Information Disclosure Statement. The Examiner states a copy of the "Japanese Office Action dated April 23, 2004" mentioned in Applicants' Information Disclosure Statement and listed as Reference No. 8 on the accompanying Form PTO-1449 filed October 15, 2004, was not received by the Patent Office. Applicants now resubmit this document, and request that the Examiner make the document of record in the application.

This Supplemental Information Disclosure Statement is submitted after receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance. A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.

Applicants would appreciate the Examiner initialing and returning the Form PTO/SB/08a/b, indicating that the information has been considered and made of record herein.

The information contained in this Supplemental Information Disclosure Statement under 37 C.F.R. § 1.97 and § 1.98 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

In the unlikely event that the transmittal form is separated from this document and the Patent and Trademark Office determines that an extension and/or other relief (such as payment of a fee under 37 C.F.R. § 1.17 (p)) is required, Applicants petition for any required relief including extensions of time and authorize the Commissioner to charge the cost of such petition and/or other

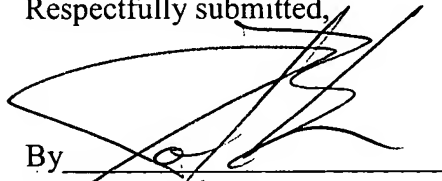
Application No.: 10/602,737

Atty. Docket No.: 356972020512

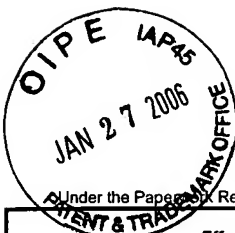
fees due in connection with the filing of this document to **Deposit Account No. 03-1952**
referencing 356972020512.

Dated: January 27, 2006

Respectfully submitted,

A handwritten signature in black ink, appearing to be 'Jonathan Bockman', written over a horizontal line.

By
Jonathan Bockman
Registration No.: 45,640
MORRISON & FOERSTER LLP
1650 Tysons Blvd, Suite 300
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Under the Paperwork Reduction Act of 1995, no person are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL For FY 2005		Complete if Known		
		Application Number	10/602,737	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Filing Date	June 25, 2003	
		First Named Inventor	Seiichi NAKATANI	
		Examiner Name	J. B. Vigushin	
		Art Unit	2841	
TOTAL AMOUNT OF PAYMENT	(\$)	180.00	Attorney Docket No.	356972020512

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): _____

☒ Deposit Account Deposit Account Number: 03-1952 Deposit Account Name: Morrison & Foerster LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee

☒ Charge any additional fee(s) or underpayment of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

<u>Total Claims</u>	<u>Extra Claims</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>	<u>Multiple Dependent Claims</u>
16	- 20 =	x	=	<u>Fee (\$)</u> <u>Fee Paid (\$)</u>
<u>Indep. Claims</u>	<u>Extra Claims</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>	
1	- 3 =	x	=	

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
	- 100 =	/50 (round up to a whole number) x	=	

4. OTHER FEE(S)

	Fees Paid (\$)
Non-English Specification, \$130 fee (no small entity discount)	
Other (e.g., late filing surcharge) 1806 Submission of an Information Disclosure Statement	180.00

SUBMITTED BY			
Signature		Registration No. (Attorney/Agent)	45,640
Name (Print/Type)	Jonathan Bockman	Telephone	(703) 760-7769
		Date	January 27, 2006



ALTERNATIVE TO PTO/SB/08a/b (07-05)

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/602,737
Filing Date	June 25, 2003
First Named Inventor	Seiichi NAKATANI
Art Unit	2841
Examiner Name	J. B. Vigushin
Attorney Docket Number	356972020512

Sheet	1	of	2
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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	1.	4,299,873-A	11-1981	Ogihara et al.	
	2.	4,417,297-A	11-1983	Oyama et al.	
	3.	4,635,356-A	01-1987	Ohuchi et al.	
	4.	4,800,459-A	01-1989	Takagi et al.	
	5.	4,808,717-A	02-28-1989	Saito et al.	
	6.	5,018,051-A	05-1991	Yamada et al.	
	7.	5,045,381-A	09-1991	Suzuki et al.	
	8.	5,096,762-A	03-1992	Yoshida et al.	
	9.	5,111,278-A	05-1992	Eichelberger	
	10.	5,153,987-A	10-1992	Takahashi et al.	
	11.	5,161,093-A	11-1992	Gorczyca et al.	
	12.	5,324,687-A	06-1994	Wojnarowski	
	13.	5,401,688-A	03-1995	Yamaji et al.	
	14.	5,401,913-A	03-1995	Gerber et al.	
	15.	5,412,538-A	05-1995	Kikinis et al.	
	16.	5,481,795	01-1996	Hatakeyama et al.	
	17.	5,484,647-A	01-1996	Nakatani et al.	
	18.	5,497,033-A	03-1996	Fillion et al.	
	19.	5,651,179-A	07-1997	Bessho et al.	
	20.	5,652,042-A	07-1997	Kawakita et al.	
	21.	5,677,045-A	10-1997	Nagai et al.	
	22.	5,744,758-A	04-1998	Takenouchi et al.	
	23.	5,806,177-A	09-1998	Hosomi et al.	
	24.	5,822,856-A	10-1998	Bhatt et al.	
	25.	5,828,126-A	10-1998	Thomas	
	26.	5,879,502-A	03-1999	Gustafson	
	27.	5,888,627-A	03-1999	Nakatani	
	28.	5,939,782-A	08-1999	Malladi	
	29.	6,002,592-A	12-1999	Nakamura et al.	
	30.	6,010,769-A	01-2000	Sasaoka et al.	
	31.	6,038,133-A	03-2000	Nakatani et al.	

Examiner Signature		Date Considered	
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ALTERNATIVE TO PTO/SB/08a/b (07-05)

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	10/602,737
				Filing Date	June 25, 2003
				First Named Inventor	Seiichi NAKATANI
				Art Unit	2841
				Examiner Name	J. B. Vigushin
Sheet	2	of	2	Attorney Docket Number	356972020512

	32.	6,143,116-A	11-2000	Hayashi et al.	
	33.	6,252,176-B1	06-2001	Kuramochi et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	34.	EP-0689242-A1	12-1995			
	35.	GB-2138205-A	10-1984			
	36.	JP-5-283608	10-1993			
	37.	JP-9-321178	12-1997			

*EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials [*]	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	38.	Japanese Office Action dated April 23, 2004, 3 pages	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
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